

RADICALES

$$\begin{aligned}
 6d) \quad & \frac{5}{6} \sqrt[3]{648} - \frac{\sqrt[3]{1024}}{16} - \frac{\sqrt[3]{250}}{10} + \sqrt[3]{375} = \\
 & = \frac{5}{6} \sqrt[3]{2^3 \cdot 3^4} - \frac{\sqrt[3]{2^{10}}}{16} - \frac{\sqrt[3]{2 \cdot 5^3}}{10} + \sqrt[3]{3 \cdot 5^3} = \\
 & = \frac{5}{6} \cdot 2 \cdot 3 \sqrt[3]{3} - \frac{2^3 \cdot \sqrt[3]{2}}{16} - \frac{5 \sqrt[3]{2}}{10} + 5 \sqrt[3]{3} = \\
 & = 5 \sqrt[3]{3} - \frac{1}{2} \sqrt[3]{2} - \frac{1}{2} \sqrt[3]{2} + 5 \sqrt[3]{3} = \\
 & = 10 \sqrt[3]{3} - 1 \sqrt[3]{2}
 \end{aligned}$$

$$\begin{aligned}
 8.c) \quad & \frac{6 - \sqrt{2}}{3\sqrt{2} - 4} - \frac{\sqrt{3} + \sqrt{6}}{\sqrt{3}} = (7\sqrt{2} + 9) - (1 + \sqrt{2}) = \\
 & = 7\sqrt{2} + 9 - 1 - \sqrt{2} = 8 + 6\sqrt{2}
 \end{aligned}$$

$$\begin{aligned}
 * \quad & \frac{6 - \sqrt{2}}{3\sqrt{2} - 4} = \frac{(6 - \sqrt{2})(3\sqrt{2} + 4)}{(3\sqrt{2} - 4)(3\sqrt{2} + 4)} = \frac{18\sqrt{2} + 24 - 6 - 4\sqrt{2}}{\frac{(3\sqrt{2})^2 - (4)^2}{9 \cdot 2 - 16}} = \frac{14\sqrt{2} + 18}{2} = \\
 & = \frac{14\sqrt{2} + 18}{2} = 7\sqrt{2} + 9
 \end{aligned}$$

$$\begin{aligned}
 * \quad & \frac{\sqrt{3} + \sqrt{6}}{\sqrt{3}} = \frac{(\sqrt{3} + \sqrt{6}) \cdot \sqrt{3}}{\sqrt{3} \cdot \sqrt{3}} = \frac{3 + \sqrt{18}}{3} = \frac{3 + \sqrt{2 \cdot 3^2}}{3} = \\
 & = \frac{3 + 3\sqrt{2}}{3} = 1 + \sqrt{2}
 \end{aligned}$$

$$\begin{aligned}
 \text{9. P)} \quad & \frac{2^{\frac{5}{2}} \cdot 0,25}{\sqrt{\sqrt[3]{4} \cdot \sqrt{2^{-1}}}} = \frac{2^{\frac{5}{2}} \cdot 2^{-2}}{\sqrt{2^{\frac{2}{3}} \cdot 2^{-1/2}}} = \frac{2^{\frac{5}{2} + (-2)}}{\sqrt{2^{\frac{2}{3} + (-\frac{1}{2})}}} = \\
 & = \frac{2^{\frac{1}{2}}}{\sqrt{2^{\frac{1}{6}}}} = \frac{2^{\frac{1}{2}}}{(2^{\frac{1}{6}})^{\frac{1}{2}}} = \frac{2^{\frac{1}{2}}}{2^{\frac{1}{12}}} = 2^{\frac{1}{2} - \frac{1}{12}} =
 \end{aligned}$$

$$= 2^{\frac{5}{12}} = \sqrt[12]{2^5} = \sqrt[12]{32}$$

OTRA FORMA

$$\begin{aligned}
 & \frac{2^{\frac{5}{2}} \cdot 2^{-2}}{\sqrt{\sqrt[3]{4} \cdot \sqrt{2^{-1}}}} = \frac{\sqrt{2^5} \cdot 2^{-2}}{\sqrt{\sqrt[6]{2^4} \cdot \sqrt[6]{2^{-3}}}} = \\
 & = \frac{\sqrt{2^5 \cdot 2^{-4}}}{\sqrt{\sqrt[6]{2}}} = \frac{\sqrt{2}}{\sqrt[12]{2}} = \frac{\sqrt[12]{2^6}}{\sqrt[12]{2}} = \sqrt[12]{2^5} = \sqrt[12]{32}
 \end{aligned}$$